

Claims as Amended:

The following is a complete listing of claims, replacing all prior listings of claims in the application:

1 Claim 1 (original): A method of forming an optical lens, the method comprising the steps of:

2 a) mixing together an optically clear dead polymer, a reactive plasticizer in an
3 amount to render the composition semi-solid and malleable, and an initiator
4 to form a semi-solid polymerizable composition, wherein the dead polymer
5 and the reactive plasticizer exhibit compatibility at temperatures not higher
6 than 100°C, and wherein the polymerizable composition remains optically
7 clear and exhibits low shrinkage when polymerized;

8 b) shaping the semi-solid composition into a desired geometry; and

9 c) exposing the semi-solid composition to a source of polymerizing energy;

10 to give the resultant optically clear lens comprising a crosslinked polymer network of reactive
11 plasticizer within an entangled dead polymer.

1 Claim 2 (original): A method according to claim 1 wherein the optically clear lens comprises a
2 semi-interpenetrating crosslinked polymer network of reactive plasticizer within an entangled
3 dead polymer.

1 Claim 3 (original): A method according to claim 2 wherein the polymer network of reactive
2 plasticizer is further crosslinked to the dead polymer.

1 Claim 4 (original): A method according to claim 1 wherein the optically clear lens comprises
2 interpenetrating reactive plasticizer polymeric chains within an entangled dead polymer.

1 Claim 5 (original): A method according to claim 1 wherein the optically clear lens is impact-
2 resistant.

1 Claim 6 (original): A method according to claim 1 wherein the optically clear lens exhibits high
2 fidelity replication.

1 Claim 7 (original): A method according to claim 1 wherein the optically clear lens exhibits
2 dimensional stability.

1 Claim 8 (original): A method according to claim 1 wherein the optically clear lens is an
2 ophthalmic lens.

1 Claim 9 (original): A method according to claim 1 wherein the semi-solid composition is shaped
2 by placing the semi-solid composition in contact with a mold, the mold corresponding to the
3 desired geometry.

1 Claim 10 (original): A method according to claim 9 wherein the semi-solid is shaped by placing
2 it into about the center of the mold, such that shaping the semi-solid while optionally heating
3 causes the semi-solid composition to flow radially outward.

1 Claim 11 (original): A method according to claim 1 which further comprises the step of
2 providing a waiting period at a predetermined temperature after the composition is shaped and
3 before exposing to the source of polymerizing energy.

1 Claims 12-15 (canceled)

1 Claim 16 (currently amended): A method of forming a shaped article, the method comprising
2 the steps of:

3 dissolving ~~mixing together~~ a dead polymer[[,]] and an initiator in a reactive plasticizer ~~in~~
4 ~~an amount to render the composition semi-solid and malleable, and an initiator~~ to form a [[semi-
5 solid]] polymerizable composition[[,]] which exhibits low shrinkage upon polymerization, said
6 reactive plasticizer being in an amount sufficient to render the composition semi-solid and
7 malleable;

8 forming the semi-solid composition into a pre-form;

9 providing a mold corresponding to a desired geometry;

10 placing the pre-form into the mold;

11 compressing the mold, with optional heating, so that the semi-solid composition takes on
12 the shape of the internal cavity of the mold, and
13 exposing the semi-solid composition to a source of polymerizing energy, to give the
14 resultant article.

1 Claim 17 (original): A method according to claim 16 which further comprises the step of
2 providing a waiting period at a predetermined temperature after the pre-form is compressed and
3 before exposing to the source of polymerizing energy.

1 Claim 18 (original): A method according to claim 16 wherein the pre-form is placed in contact
2 with the mold, such that shaping the mold solid while optionally heating causes the semi-solid
3 composition to flow radially outward.